

807 PU ALIPHATIC PRIMER

POLYURETHANE-BASED, TRANSPARENT, TWO COMPONENTS, PRIMER, USED AS PRIMER COMPONENT FOR POLYURETHANE-BASED INDUSTRIAL COATINGS

GENERAL CHARACTERISTICS

807 PU ALIPHATIC PRIMER is a clear, polyurethane-based, two-component resin, which is used as an adhesive component between the sub-floor and all the polyurethane-based industrial coatings.

- Ideal for old and new surfaces.
- Eliminates dust and decay from old & new floorings, reinforcing their durability.
- Penetrates in depth, protects and hardens old absorbent cement surfaces.

TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	liquid
Viscosity:	50-400 mPa•s at 25°C
Density:	0,9 - 1,0 kg/lit
Mixing proportion (A:B):	86:14 by weight
Final strength:	after 7 days at 25°C
Walkability:	after 2 days at 25°C
Adhesive strength:	>3 N/mm ² (breaking of concrete)
Colors:	transparent
Temperature for the application and drying of the material:	10 – 38°C

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION- APPLICATION

Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of

the material.

- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.
- Priming of the surface with **807 PU ALIPHATIC PRIMER** in two or more layers. Consumption: 200-400 gr/m², depending on the absorption of the underlay. It is recommended that the last layer should be applied in sections each time, right before the application of the industrial covering (wet-on-wet procedure), in order to ensure proper adhesion.
- Apply **807 PU ALIPHATIC PRIMER** until the surface is saturated and a film is created. If mat spots appear, then another layer is necessary. The next layer follows the other before the previous starts to dry.

CONSUMPTION

200-400 gr/m², in two or more layers depending on the type, absorbency and roughness of the underlay.

APPLICATION TOOLS

Airless sprayer, paint rollers, brushes. Tools should be cleaned with solvent immediately after use.



PACKAGING

Supplied in drums of 15 Kg and barrels of 190 Kg.



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STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.

REMARKS

- Working time of **807 PU ALIPHATIC PRIMER** decreases when ambient temperature rises.
 - Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
 - Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
 - Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
 - It **cannot be applied in thickness for filling cracks or holes.**
 - In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and grinded prior to application of a new layer.
 - The cement subfloor must be thoroughly cleaned and smooth, moisture content below 4%.
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CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

The information given here is true, represents our best knowledge and is based not only on laboratory work, but also on field experience. However, because of numerous factors affecting results we offer this information without any guarantee and no patent liability is assumed. For additional information or questions, contact the technical department of KDF LTD.

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MARMOR STONE CARPET

DECORATIVE FLOORING

GENERAL CHARACTERISTICS

MARMOR STONE CARPET is a three-component, decorative flooring consisting of hard quartz aggregates (grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger) or marble and polyurethane or epoxy resins.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Suitable for exterior use with the usage of polyurethane, UV resistant resins.
- For interior surfaces it is recommended the use of **epoxy-based MARMOR STONE CARPET**.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for malls, squares, hotels, shopping centers, swimming pools and generally areas where high resistant and beauty is demanded.

TECHNICAL DATA

Basis:	two-component polyurethane resin, aggregates
Appearance:	viscous paste
Colors:	available in 16 colors
Viscosity(A+B):	900-3500 mPa•s at 25°C
Density (A+B):	0,95 - 1,05 Kg/lt
Mixing proportion (A:B):	80,6:19,4 by weight
Mixing proportion (A+B:C):	10:90 by weight
Granulometry (C):	2000 µm – 4000 µm
Final strength:	4000 µm – 6000 µm
Temperature for the application and drying of the material:	after 7 days at 25°C 10 – 38°C
Walkability:	
Adhesive strength:	after 2 days at 25°C >3 N/mm ² (breaking of concrete)

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION-APPLICATION

Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of

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the material.

- Grinding of the surface with a mosaic machine, with sandblast or rotor machine, depending on the thickness of the final coating.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **807 PU ALIPHATIC PRIMER**. Consumption: 200-400 gr/m², depending on the absorption of the underlay.
- Following **MARMOR STONE CARPET** is applied.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed.
- The polyurethane mortar is applied on the surface using a flat trowel. The material is pressed using a rectangular stainless trowel and laid until applied to the desired thickness (from grain thickness to 1 cm).
- After hardening of the material (approx. 12 hours depending on the ambient temperature) and within 24 hours, follows the application of **807 PU TOP COATING ALIPHATIC VARNISH** (consumption: 300-600 gr/m²) in order for the surface to become rigid and to avoid any loose grains.

CONSUMPTION

Suggested:
6 Kg/m², for grain thickness 0,7-1,2mm.
12 Kg/m², for grain thickness 2-4mm.

APPLICATION TOOLS

Trowels, rectangular stainless spatulas. Tools should be cleaned with solvent immediately after use.



PACKAGING

Supplied in packages of 28 kg (two drums, one bag). Components A, B and C have the fixed weight proportion.



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STORAGE

1 year in original unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.

REMARKS

- Working time of **MARMOR STONE CARPET** decreases when ambient temperature rises.
- Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
- Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
- In case old floors are going to be laid they must be thoroughly grinded and also the same procedure must be followed in case a long period of time interferes between successive layers, prior to application of a new layer.
- It is recommended that tools are cleaned periodically with **POLYURETHANE SOLVENT** during application of **MARMOR STONE CARPET** for a smooth final surface.
- After hardening, **MARMOR STONE CARPET** is completely safe for health.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.
For more information consult the material safety data sheet.

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807 PU ALIPHATIC STONE BINDER

GENERAL CHARACTERISTICS

807 PU ALIPHATIC STONE BINDER is polyurethane-based, two-component resin, for outdoor or indoor use, to be mixed with hard quartz aggregates (grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger) or marble chips for the creation of decorative flooring.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Creates an easier -to-clean indoor or outdoor flooring.
- Suitable for exterior use with the usage of polyurethane, UV-resistant resins.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for malls, squares, hotels, shopping centers, swimming pools, corridors and generally areas where high resistant and beauty is demanded.

TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	clear liquid
Viscosity:	900-3500 mPa•s at 25°C
Density:	0,95 - 1,05 Kg/lit
Mixing proportion (A:B):	80,6:19,4 by weight
Final strength:	after 7 days at 25°C
Walkability:	after 2 days at 25°C
Adhesive strength:	>3 N/mm ² (breaking of concrete)
Temperature for the application and drying of the material:	12– 38°C

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION- APPLICATION

Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- Grinding of the surface with a mosaic machine, with sandblast or rotor machine, depending on the thickness of the final coating.
- Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C during application and curing of the materials while relative environment humidity does not exceed 75%.
- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **807 PU ALIPHATIC PRIMER**. Consumption: 200-400 gr/m², depending on the absorption of the underlay.
- When the last layer of the primer is still wet follows the application of **MARMOR FLOOR MIX** (wet-on-wet procedure), a three-component decorative flooring.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed. Mixing ratio Aggregates: Resin, 90:10 by weight.
- The polyurethane mortar is applied on the surface using a flat trowel. The material is pressed using a rectangular stainless trowel and laid until applied to the desired thickness (from grain thickness to 1 cm).
- After the total hardening of the material follows the application of **807 PU TOP COATING ALIPHATIC VARNISH** (consumption: 300-400gr/m²), with an airless sprayer, in order for the surface to become rigid and to avoid any loose grains.

CONSUMPTION

12kg/m² for the MARMOR FLOOR MIX.

APPLICATION TOOLS

Trowels, rectangular stainless spatulas. Tools should be cleaned with solvent immediately after use.

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PACKAGING

Supplied in packages of 3kg and 15 kg (two drums). Components A and B have the fixed weight proportion.



STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.

REMARKS

- Working time of **807 PU ALIPHATIC STONE BINDER** decreases when ambient temperature rises and ratio of the resins to aggregates also decreases the more granulometry of the aggregates raises.
- Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
- Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested or the usage of our special primer damp barrier is strongly suggested for surfaces with trapped humidity.
- In case old floors are going to be laid they must be thoroughly grinded and also the same procedure must be followed in case a long period of time interferes between successive layers, prior to application of a new layer.
- After hardening, **807 PU ALIPHATIC STONE BINDER** is completely safe for health.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

For more information consult the material safety data sheet.

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QUARTZ/ MARBLE AGGREGATES – MARMOR FLOOR

DECORATIVE FLOORING

GENERAL CHARACTERISTICS

MARMOR STONE CARPET is a three-component, decorative flooring consisting of hard quartz aggregates (grain thickness 0,7-1,2mm, 2-4mm and 4-6mm or bigger) or marble and polyurethane or epoxy resins.

- Creates colored, high resistant, decorative flooring of high aesthetic without joints, not requiring maintenance and meeting **health standards**.
- Suitable for exterior use with the usage of polyurethane, UV resistant resins.
- Resistant to acid solutions, alkalis, oil, grease, wastes.
- Resistant to mechanical stresses, wearing from friction and chemical effects.
- It is ideal for malls, squares, hotels, shopping centers, swimming pools and generally areas where high resistant and beauty is demanded.

TECHNICAL DATA

Colors:	various
Granulometry:	0,7-1,2mm, 2-4mm and 4-6mm or other
Density (kg/L):	>2,5

PREPARATION APPLICATION

Applied only on dry surfaces. Protected from rising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
- Priming of the surface with **807 PU ALIPHATIC PRIMER**. Consumption: 200-400 gr/m², depending on the absorption of the underlay.
- Following **MARMOR STONE CARPET** is applied.
- Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener. Afterwards, the whole quantity of component C (quartz aggregates) is gradually added into the mixture under continuous stirring until a uniform polyurethane mortar is formed.
- The polyurethane mortar is applied on the surface using a flat trowel. The material is pressed using a rectangular stainless trowel and laid until applied to the desired thickness (from grain thickness to 1 cm).
- After hardening of the material and within 24 hours, follows the application of **807 PU TOP COATING ALIPHATIC VARNISH** in order for the surface to become rigid and to avoid any loose grains.

PACKAGING

bags



STORAGE

Keep in dry places with minimum temperature 5°C and high temperature 30 °C (avoid sunlight).

CAUTION

For more information consult the material safety data sheet.

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807 PU TOP COATING ALIPHATIC VARNISH

GENERAL CHARACTERISTICS

807 PU TOP COATING ALIPHATIC VARNISH is polyurethane-based, anti-dust, transparent, two-component resin UV- resistant resin.

- Creates an easier -to-clean indoor or outdoor floorings.
- Ideal for old and new surfaces, for light and middle circulation such as industrial floorings, mosaics, cement surfaces, workshops, and storehouses. Suitable even for metallic surfaces and for painting swimming pools. Ideal to be used also over stone carpet flooring to strengthen the final surface and decrease the absorbency of the flooring.
- Provides permanent protection from U.V. radiation.
- Eliminates dust and decay from old & new floorings, reinforcing their durability.
- Offers high mechanical resistance and chemical protection against acid, alkalis, oil, and grease if the final surface has a smooth, non-porous finish.
- Penetrates in depth, protects and hardens old absorbent cement surfaces.
- It can be easily repaired locally if necessary.

TECHNICAL DATA

Basis:	two-component polyurethane resin
Appearance:	liquid
Viscosity:	50-400 mPa•s at 25°C
Density:	0,9 - 1,0 kg/lit
Mixing proportion (A:B):	86:14 by weight
Final strength:	after 7 days at 25°C
Walkability:	after 2 days at 25°C
Adhesive strength:	>3 N/mm ² (breaking of concrete)
Colors:	transparent
Temperature for the application and drying of the material:	10 – 38°C

SUBSTRATE REQUIREMENTS

Concrete quality:	at least C20/25
Age:	at least 30 days
Moisture content:	below 4%

PREPARATION-APPLICATION

Applied only on dry surfaces. Protected from arising humidity and free of materials that might prevent bonding e.g. dust, loose particles, grease etc. The success in the application depends on the right preparation of the underlay and use of the material.

- **Good, dry** cleaning of the surface from dust and residues with vacuum cleaner and squeegees.
 - Caution must be taken so that temperature of the substrate as well as ambient air remains above 10°C during application and curing of the materials while relative environment humidity does not exceed 75%.
 - Good mixing of components A (resin) & B (hardener) packed into separate containers in fixed weight proportions. Mixing should be performed using a low revolution mixer (300-600 rpm) for 1-2 min. Stirring of the mixture should be performed thoroughly near the sides and bottom of the container in order to achieve uniform dispersion of the hardener.
 - Then application of two or more layers with **807 PU TOP COATING ALIPHATIC VARNISH** undiluted. The next layer follows the other after the previous dries, within 6-12 hours depending on the ambient temperature and not more than 24 hours. The number of layers vary from one surface to another depending on the absorbency.
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CONSUMPTION

300-600 gr/m², in two or more layers depending on the type, absorbency and roughness of the underlay.

APPLICATION TOOLS

Airless sprayer.



PACKAGING

Supplied in packages of 15 kg (two drums). Components A and B have the fixed weight proportion.



STORAGE

One year in unopened containers in dry places with minimum temperature 5°C and maximum temperature 30°C, protected from moisture, heat and sunlight.

REMARKS

- Working time of **807 PU TOP COATING ALIPHATIC VARNISH** decreases when ambient temperature rises.
- Prolonged storage of partially used containers must be avoided as contact with atmospheric moisture will result in skinning and clouding of the product.
- Do not mix or apply unless surface, air and material temperatures are over 10°C during the next 24 hours.
- Do not apply to floors if there is moisture in the subfloor drive or hydrostatic pressure. Prior precautions measurements of humidity with special device are suggested.
- It **cannot be applied in thickness for filling cracks or holes**.
- In case old floors are going to be laid or a long period of time interferes between successive layers, the surface must be thoroughly cleaned and grinded prior to application of a new layer.
- After hardening **807 PU TOP COATING ALIPHATIC VARNISH** is completely safe for health.

CAUTION

The application must take place in well-aired places using protective gloves. Skin or eye contact must be avoided, otherwise wash carefully with soap and water.

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